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SECURITY INFORMATION

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REPORT NO

CD NO.

COUNTRY East Germany

DATE DISTR. 7 August 1952

SUBJECT The Production of a New Copper Alloy at
Niederfinow and Hettstedt

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THIS IS UNEVALUATED INFORMATION

1. The Niederfinow Metallhuettenwerk is being rebuilt and will be renamed the Kupferwalzwerk, Niederfinow. This plant will work in conjunction with the Walzwerk fuer Buntmetalle, Rottstedt. Both plants are concerned with the production of a new copper alloy. This alloy is at present known as Kuprodur, which is probably a cover name since the term is already in use for an alloy which does not include titanium. The specifications of the new copper alloy are as follows:

copper

silicon (1%)

nickel (2%)

titanium (about 1½%)

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2. The alloy can be tempered like steel by hardening (durch Aushaertung). The blanks are heated to 820° and then chilled in water. The result is a material almost as soft as copper, which can be cut much better than copper, and is particularly suitable for cold rolling and acetylene welding.

3. The following are the strength properties of this alloy:

Brinell hardness kg/mm²...soft approx. 65

tempered " 175

tempered and strain hardened 175-235
(ausgehärtet und verfestigt)

Tensile strength soft approx. 35

tempered " 65

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tempered and strain hardened 15-7

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